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RON CURRY
Secretary

SARAH COTTRELL
Deputy Secretary

July 7, 2010

Ms. Maria Martinez
Section Chief, Air Quality Analysis
USEPA Region 6
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202

Dear Ms. Martinez:

The purpose of this document is to provide information concerning the operation of the ambient air monitoring network by the New Mexico Environment Department (NMED) Air Quality Bureau (AQB) in 2009.

Under 40 CFR, Part 58, Subpart B, States are required to submit an annual monitoring network review to the Environmental Protection Agency (EPA) regional office in Dallas Texas. This network plan is required to provide the framework for establishment and maintenance of an air quality surveillance system. The annual monitoring network plan must be made available for public inspection for at least 30 days prior to submission to EPA. The plan was posted from May 29, 2010 through June 30, 2010.

No comments were received.


Any comments pertaining to this document should be sent to the following contact:

Terry Hertel
Monitoring Program Manager
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Air Quality Bureau
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Or email at:

terry.hertel@state.nm.us

Regards,

A handwritten signature in black ink, appearing to be 'T. Hertel', with a stylized, overlapping 'H'.

Terry Hertel

Manager, Ambient Air Monitoring Section

xc: Anna Richards; Operations Section Chief

**2009 Network Review
Air Quality Bureau
New Mexico Environment Department
July 2010**

**Prepared by
Terry Hertel, Manager, Ambient Air Monitoring Program**

The purpose of this document is to provide information concerning the operation of the ambient air monitoring network by the New Mexico Environment Department (NMED) Air Quality Bureau (AQB) in 2009.

Under 40 CFR, Part 58, Subpart B, States are required to submit an annual monitoring network review to the Environmental Protection Agency (EPA) regional office in Dallas Texas. This network plan is required to provide the framework for establishment and maintenance of an air quality surveillance system. The annual monitoring network plan must be made available for public inspection for at least 30 days prior to submission to EPA.

1.0 Overview

At the end of 2009 the Bureau operated 28 criteria air pollutant monitoring sites located in 11 of the State's 33 counties. All air monitoring locations are sited in major population centers or near known pollution sources. The Ambient Air Monitoring Section is working with a full-time staff of six; there is one vacancy.

Table 1 contains a listing of all New Mexico Environment Department, Air Quality Bureau ambient air monitoring sites .

2.0 PM2.5 FRM Network

The Bureau operated eight PM2.5 FRMs at seven monitoring locations at the end of 2009.

Farmington	35-045-0006	(Collocation)
Santa Fe	35-049-0020	
Roswell	35-005-0005	
Hobbs	35-025-0008	
Las Cruces	35-013-0025	
Sunland Park	35-013-0017	
Silver City	35-017-1002	

The Farmington site continues to operate the only collocated sampler in our FRM PM2.5 network.

The Rio Rancho Partisol was shut down on 09/07/09. AQB continues to search for a new location for the Rio Rancho site.

3.0 Continuous PM2.5 Network

The Bureau operated continuous TEOM analyzers for PM2.5 at eleven monitoring locations.

Santa Fe Runnels	35-049-0020	(Collocated with FRM)
Taos	35-055-0005	
Carlsbad	35-015-1005	
Anthony	35-013-0016	
Sunland Park	35-013-0017	(Collocated with FRM)
Desert View	35-013-0021	
Santa Teresa	35-013-0022	
Hobbs	35-025-0008	
Navajo Lake	35-045-0018	
Los Lunas	35-061-0008	
Santa Fe Airport	35-049-0021	

4.0 PM10 FRM Network

The Bureau operated a total of 13 PM10 samplers at 11 monitoring locations at the end of 2009.

Farmington	35-045-0006	
Bernalillo	35-043-0001	
Santa Fe	35-049-0020	(Collocation)
Taos	35-055-0005	
Roswell	35-005-0005	
Hobbs	35-025-0008	
Anthony	35-013-0016	
Sunland Park	35-013-0017	
Deming	35-029-0001	(Collocation)
Hurley	35-017-0009	
Silver City	35-017-1002	

The northern counties continue to report relatively low values when compared to the southern counties.

Sampling at the Hurley school was discontinued and the Wedding sampler was moved to the Hurley smelter site.

5.0 Continuous PM10 Network

The Bureau operated a total of six continuous TEOM PM10 analyzers at the end of 2009.

Anthony	35-013-0016
Sunland Park	35-013-0017
Chaparral	35-013-0020
Holman Road	35-013-0019
West Mesa	35-013-0024
Deming Airport	35-029-0003

6.0 CO Network

The Bureau no longer conducts carbon monoxide monitoring.

7.0 SO2 Network

The Bureau operated a total of three SO2 monitoring stations at the end of 2009.

Substation	35-045-1005
Bloomfield	35-045-1009
Hurley	35-017-1003

The Artesia SO2 monitor was shut down on 06/02/09.

8.0 NO2 Network

The Bureau operated a total of eight NO2 monitoring stations at the end of 2009.

Substation	35-045-1005
Bloomfield	35-045-1009
Carlsbad	35-015-1005
Desert View	35-013-0021
Santa Teresa	35-013-0022
Hobbs	35-025-0008
Navajo Lake	35-045-0018
Deming Airport	35-029-0003

The Rio Rancho NO2 monitor was shut down on 07/24/09. AQB continues to search for a new location for the Rio Rancho site.

The Artesia NO2 monitor was shut down on 06/02/09.

9.0 O3 Network

The Bureau operated fourteen O3 monitoring stations in our statewide network at the end of 2009.

Substation	35-045-1005
Bloomfield	35-045-0009
Bernalillo	35-043-1001
Carlsbad	35-015-1005
La Union	35-013-0008
Solano Road	35-013-0023
Sunland Park	35-013-0017
Chaparral	35-013-0020
Desert View	35-013-0021
Santa Teresa	35-013-0022
Hobbs	35-025-0008
Navajo Lake	35-045-0018
Deming Airport	35-029-0003
Santa Fe Airport	35-049-0021

The Rio Rancho O3 monitor was shut down on 07/24/09. AQB continues to search for a new location for the Rio Rancho site.

10.0 Network Changes

Changes to the monitoring network during 2009 included the shut down of the Rio Rancho and Artesia sites and the installation of an ozone monitor at the Los Lunas site.

11.0 Other Projects

Northern air monitoring staff continued a second EPA-sponsored project to collect passive ammonia monitoring project in San Juan County, New Mexico. This project will hopefully continue for the next two years.

NMED / AQB is involved in a passive Reactive Gaseous Mercury sampling project. Sampling is being conducted at the Navajo Lake and Substation sites, as well as at the Farmington airport.

12.0 Summary

Depending on funding decisions, AQB will scrutinize its investment and operation of all of its monitoring sites and pollutants. Our intention is to keep focus on pollutants of concern while being sure to continue to serve the needs and to satisfy the expectations of the New Mexico communities. AQB will inform Region VI staff of our plans early in the process to make sure that state and federal priorities continue to be aligned.

13.0 Monitoring Network's New Monitoring Requirements

13.1 Lead (Pb)

Two criteria have been set up for Pb monitoring:

- Source-oriented – For sources over 0.5 Tons per year.
- “Non-source”-oriented in every urban area with a population of 500,000 or more.

Based on these criteria, no Pb monitors are required in regions under NMED / AQB jurisdiction.

13.2 Nitrogen Dioxide

Two criteria have been set up for NO₂ monitoring:

- Near-road NO₂ monitoring; 1 micro-scale site would be required in CBSAs \geq 350,000 at a location of expected highest hourly NO₂ concentrations sited near a major road with high AADT (Annual Average Daily Traffic) counts.
- Community-wide; required in CBSAs \geq 1 million at a location of expected highest NO₂ concentrations representing neighborhood or larger (urban) spatial scale.

Based on these criteria, no new NO₂ monitors are required in regions under NMED / AQB jurisdiction.

13.3 Sulfur Dioxide

Two criteria have been set up for SO₂ monitoring:

- Based on population per Core Based Statistical Area (CBSA) and amount of SO₂ emissions within that CBSA (Population Weighted Emissions Index)
- Based on individual state contribution to national SO₂ inventory (2005 NEI)

Based on the PWEI criteria, NMED / AQB would not need to deploy any new monitors.

Based on the 2005 NEI criteria, NMED / AQB would need one monitor. This requirement is already being complied with by virtue of the Substation site.

13.4 Ozone

Three criteria have been set up for ozone monitoring:

- 1 monitor in a Micropolitan Statistical Area (10,000-<50,000).

Three sites already meet this criteria; Hobbs, Deming, and Carlsbad.

- 1 monitor in an area of high ozone concentration outside of currently monitored MSAs and Micropolitan areas.

NMED / AQB is working with the US Forest Service to commission a site at the Coyote Ranger Station on the Santa Fe National Forest.

- 1 monitor in an area set aside to conserve scenic value and the natural vegetation and wildlife within such area.

The existing Navajo Lake site (close to Navajo Lake State Park) fulfills this requirement.

14.0 Other Issues

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